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**CENSUS
USE
ONLY**FORM **RD-1(L)**
(11-12-97)U.S. DEPARTMENT OF COMMERCE
BUREAU OF THE CENSUS
COLLECTING AND COMPILING AGENT FOR
THE NATIONAL SCIENCE FOUNDATION**SURVEY OF INDUSTRIAL RESEARCH AND DEVELOPMENT DURING 1997**In correspondence pertaining to this report refer
to this **CENSUS FILE NUMBER (11 digits)** ►

SURVEY CODE

4001

INDUSTRY CODE

WEIGHT

STATE

ADDRESS

SIC CODE

**RETURN
TO****Bureau of the Census
1201 East 10th Street
Jeffersonville, IN 47132-0001**

Name of person who supplied 1996 data

Data supplied in items 1A and 1B and in item
3A, line 3, columns 4 and 6, for 1997 on this
form will satisfy the mandatory reporting
requirements. (Title 13, U.S. Code.)

PLEASE READ ENCLOSED INSTRUCTIONS
BEFORE COMPLETING THIS FORM.

(Please correct any error in name and address, including ZIP Code.)

THIS REPORT SHOULD COVER YOUR ENTIRE CONSOLIDATED DOMESTIC ENTERPRISE, INCLUDING ALL U.S. SUBSIDIARIES AND DIVISIONS.

The term "company" on this form refers to the consolidated domestic enterprise.

- Please complete this form by the date printed at the top of this page and return it in the envelope provided. Make a copy for your records.
- Please read the enclosed instructions before completing this form.
- Report figures in thousands of dollars. Reasonable estimates are acceptable.
- Explain significant changes in year-to-year data in the remarks section.

COVERAGE REVIEW

Was this company owned or controlled by another company on
December 31, 1997?

1303 ☐ Yes – See instructions for Coverage Review.1304 ☐ No – Continue with item 1

Section I - GENERAL COMPANY DATA

Item 1 - RECEIPTS AND EMPLOYMENT FOR THE COMPANY

A. Net sales, operating receipts and revenues of domestic operations of this company (Report in thousands of dollars)

INCLUDE receipts for sales of products and services provided to other companies, individuals, U.S. Government agencies, and foreign countries.
EXCLUDE domestic intra-company transfers and sales by foreign subsidiaries.

1996			1997		
Bil.	Mil.	Thou.	Bil.	Mil.	Thou.
101			102		

B. Domestic company employment in all activities during the pay period which includes the 12th of March 1997 (Item 1 of I.R.S. Form 941, if one Form 941 was filed for the entire company.)

Number			Number		
111			112		

Item 2 - NUMBER OF RESEARCH AND DEVELOPMENT SCIENTISTS AND ENGINEERS

Apportion on a full-time equivalent basis. See page 4 of the instruction booklet for more detail.

A. Federal research and development

January 1997			January 1998		
Number			Number		
503			504		

B. Company and other research and development

505			506		
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C. TOTAL - Sum of lines 2A and 2B

501			502		
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Item 3 - COSTS INCURRED FOR RESEARCH AND DEVELOPMENT

(Report in thousands of dollars)

A. Performed within the company

1. Basic research -
If "NONE," please mark (X) here

300

1996									1997								
Federal funds (1)			Company and other (2)			Total ((1)+(2)) (3)			Federal funds (4)			Company and other (5)			Total ((4)+(5)) (6)		
Bil.	Mil.	Thou.	Bil.	Mil.	Thou.	Bil.	Mil.	Thou.	Bil.	Mil.	Thou.	Bil.	Mil.	Thou.	Bil.	Mil.	Thou.
301			302			303			304			305			306		
311			312			313			314			315			316		
321			322			323			324			325			326		
331			332			333			334			335			336		
341			342			343			344			345			346		
351			352			353			354			355			356		
			362									365					
			372									375					

2. Applied research and development
a. Applied research
b. Development
c. Total - Sum of lines a and b

3. Total - Sum of lines 1 and 2.c.

B. Outside the company - Federal funds and company funds for research and development performed by others outside the company within the United States (Exclude from 3A.3. above)

C. Foreign - Company funds for research and development performed by foreign subsidiaries or other organizations outside the United States (Exclude from 3A.3. and 3B. above)

D. TOTAL - Company and other funds, except Federal (This line represents company sponsored research and development with the exception of "other funds.") - Sum of 3A.3 (column 2), B, and C

Item 4 - COMPANY AND OTHER FUNDS, EXCEPT FEDERAL, FOR RESEARCH AND DEVELOPMENT PERFORMED WITHIN THE COMPANY BUDGETED FOR THE YEAR 1998

1998		
Bil.	Mil.	Thou.
401		

(Comparable to the 1997 figure reported in Item 3A.3., column (5).)

Section II - RESEARCH AND DEVELOPMENT PERFORMED WITHIN THE DOMESTIC COMPANY

Item 5 - COSTS INCURRED FOR FEDERAL RESEARCH AND DEVELOPMENT PERFORMED WITHIN THE COMPANY BY PRINCIPAL GOVERNMENT AGENCY

Allocate the total reported in Item 3A., line 3, column (4), Federal funds, into the following principal agencies:

1. Department of Defense

2. National Aeronautics and Space Administration

3. Department of Energy

4. Other Federal agencies

5. TOTAL COSTS - Sum of lines 1 through 4

Key code	1995 (1)			1996	1997 (2)		
	Bil.	Mil.	Thou.		Bil.	Mil.	Thou.
5				N			
01				O			
02				T			
03				A			
04				S			
				K			
				E			
05				D			

Item 6 - COSTS INCURRED FOR RESEARCH AND DEVELOPMENT PERFORMED WITHIN THE COMPANY BY MAJOR TYPE OF EXPENSE

Allocate the total reported in Item 3A., line 3, column (6), total company research and development - Exclude lines 3B. and 3C.

1. Wages and salaries of research and development personnel - Include scientists and engineers, technicians, secretaries, and other personnel.

2. Costs of materials and supplies consumed - Do not include in this item components, models, and other materials supplied by other research organizations.

3. Other costs - Include service and supporting costs, R&D depreciation, and share of overhead.

4. TOTAL COSTS - Sum of lines 1 through 3

Key code	1995 (1)			1996	1997 (2)		
	Bil.	Mil.	Thou.		Bil.	Mil.	Thou.
6				N			
01				O			
02				T			
03				A			
				S			
				K			
04				E			
				D			

PLEASE CONTINUE ON NEXT PAGE

Item 9 — COST OF RESEARCH AND DEVELOPMENT PERFORMED WITHIN THE COMPANY BY STATE

Allocate the total reported in Item 3.A., line 3, columns (4) and (6), by the States in which your various research and development laboratories or facilities are located. Estimate the costs associated with each State. If necessary, you may report up to 10 percent of your total as "Not distributed by State."

Key code	State	1995						1996	1997						Key code	State	1995						1996	1997																														
		Federal funds (1)			Total funds (2)				Federal funds (1)			Total funds (2)					Federal funds (1)			Total funds (2)				Federal funds (1)			Total funds (2)																											
		Bil.	Mil.	Thou	Bil.	Mil.	Thou		Bil.	Mil.	Thou	Bil.	Mil.	Thou			Bil.	Mil.	Thou	Bil.	Mil.	Thou		Bil.	Mil.	Thou	Bil.	Mil.	Thou																									
01	AL							N							27	MT											N																											
02	AK							O							28	NE											O																											
03	AZ							T							29	NV											T																											
04	AR														30	NH																																						
05	CA							A							31	NJ											A																											
06	CO							S							32	NM											S																											
07	CT							K							33	NY											K																											
08	DE							E							34	NC											E																											
09	DC							D							35	ND											D																											
10	FL														36	OH																																						
11	GA														37	OK																																						
12	HI														38	OR																																						
13	ID														39	PA																																						
14	IL														40	RI																																						
15	IN														41	SC																																						
16	IA														42	SD																																						
17	KS														43	TN																																						
18	KY														44	TX																																						
19	LA														45	UT																																						
20	ME														46	VT																																						
21	MD														47	VA																																						
22	MA														48	WA																																						
23	MI														49	WV																																						
24	MN														50	WI																																						
25	MS														51	WY																																						
26	MO														52	*																																						
														953																								954																
53	TOTAL COSTS — Sum of lines 1 through 52																																																					

*Not distributed by State

PLEASE CONTINUE ON NEXT PAGE

Section II - RESEARCH AND DEVELOPMENT PERFORMED WITHIN THE DOMESTIC COMPANY - Continued

- Estimate expenditures for energy research by energy source for 1998.

- Estimate expenditures for pollution abatement research for 1998.

[illegible]

Section III - RESEARCH AND DEVELOPMENT PERFORMED OUTSIDE THE DOMESTIC COMPANY WITH COMPANY FUNDS

Item 12 - FOREIGN RESEARCH AND DEVELOPMENT BY COUNTRY		Key code	1997			
Report the amount of total foreign research and development, Item 3.C., column (5), for the countries with the largest expenditures. If necessary, write in countries not listed. Report the balance of foreign research and development on line 9.			12	Bil.	Mil.	Thou.
1. Canada		01				
2. Germany		02				
3. France		03				
4. Japan		04				
5. United Kingdom		05				
6. Puerto Rico		06				
7. Other - Specify		07				
8. Other - Specify		08				
9. Balance not distributed		09				
10. TOTAL - Sum of lines 1 through 9		10				

Item 13 - COVERAGE AND OPERATIONAL STATUS	
A. Are research and development expenditures for the entire domestic enterprise, including subsidiaries, reported on this form? 1301 <input type="checkbox"/> Yes 1302 <input type="checkbox"/> No - Please explain in the "Remarks" section on the back of the page.	
B. New owner information	
602 Name	
603 Address (Number and street)	
604 City	605 State 606 ZIP Code

Item 14 - CERTIFICATION - This report is substantially accurate and has been prepared in accordance with instructions				
Name of person to contact regarding this report		Telephone	Area code	Number Extension
Signature of authorized official		Title		701 Date

USE REVERSE SIDE FOR REMARKS

801 REMARKS